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# **[DOWNHOLE DRILLING APPARATUS AND METHOD FOR USING SAME]**

## **Abstract of Disclosure**

A method and apparatus is provided to support a gyroscope within a downhole drilling tool. A packaging system is positioned within a drill collar of the drilling tool and includes a housing for the gyro and at least one centralizer supporting the housing within the drill collar. The system may also be provided with a down-hole end cap, an up-hole endcap and a loading device. A gyro compression mechanism that is capable of holding wires may also be included to provide power and communication while compressing the gyro to isolate it from shock or vibration.